Pham 170377

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 170377 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170377 has 16 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Sicarius2_30
• Track 2 : Abba_29
• Track 3 : Tiff81_30
• Track 4 : Raqqa_25
• Track 5 : Anekin_28
• Track 6 : Seahorse_29
• Track 7 : AbbyDaisy_25
• Track 8 : Cole_24
• Track 9 : Ryan_26, Nandita_26, Zaheer_26
• Track 10 : Popper_24
• Track 11 : Hirko_28
• Track 12 : Vibaki_28
• Track 13 : Bauer_26, Zucker_25

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 1, it was called in 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_25, Anekin_28, Bauer_26, Cole_24, Nandita_26, Popper_24, Raqqa_25, Ryan_26, Seahorse_29, Tiff81_30, Zaheer_26, Zucker_25,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Abba_29, Hirko_28, Sicarius2_30, Vibaki_28,

Summary by start number:

Start 1:
• Found in 12 of 16 (75.0%) of genes in pham
• Manual Annotations of this start: 9 of 13

• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_25 (AY), Anekin_28 (AY), Bauer_26 (FN), Cole_24 (FF), Nandita_26 (FF), Popper_24 (FF), Raqqa_25 (AY), Ryan_26 (FF), Seahorse_29 (AY), Tiff81_30 (AY), Zaheer_26 (FF), Zucker_25 (FN),

Start 2:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hirko_28 (FL), Vibaki_28 (FL),

Start 3:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_29 (AO3), Sicarius2_30 (AO2),

Summary by clusters:

There are 6 clusters represented in this pham: AO3, AO2, FF, AY, FL, FN,

Info for manual annotations of cluster AO2:
•Start number 3 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 3 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster AY:
•Start number 1 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster FF:
•Start number 1 was manually annotated 5 times for cluster FF.

Info for manual annotations of cluster FL:
•Start number 2 was manually annotated 2 times for cluster FL.

Info for manual annotations of cluster FN:
•Start number 1 was manually annotated 2 times for cluster FN.

Gene Information:

Gene: Abba_29 Start: 24790, Stop: 25188, Start Num: 3
Candidate Starts for Abba_29:
(Start: 3 @24790 has 2 MA's), (6, 24841), (9, 24868), (17, 24961), (18, 24994), (20, 25003), (21, 25009), (22, 25018), (23, 25063),

Gene: AbbyDaisy_25 Start: 19357, Stop: 19806, Start Num: 1
Candidate Starts for AbbyDaisy_25:
(Start: 1 @19357 has 9 MA's), (6, 19423), (10, 19489), (13, 19510), (15, 19525), (16, 19534), (19, 19579), (22, 19600), (25, 19753), (26, 19762),

Gene: Anekin_28 Start: 20364, Stop: 20804, Start Num: 1
Candidate Starts for Anekin_28:
(Start: 1 @20364 has 9 MA's), (6, 20430), (10, 20496), (11, 20505), (13, 20517), (16, 20541), (19, 20586), (26, 20763),

Gene: Bauer_26 Start: 20069, Stop: 20515, Start Num: 1
Candidate Starts for Bauer_26:
(Start: 1 @20069 has 9 MA's), (6, 20135), (10, 20201), (15, 20237), (16, 20246), (26, 20471),

Gene: Cole_24 Start: 19378, Stop: 19782, Start Num: 1
Candidate Starts for Cole_24:
(Start: 1 @19378 has 9 MA's), (9, 19471), (13, 19531), (14, 19543), (15, 19546), (16, 19555), (18, 19597), (24, 19717),

Gene: Hirko_28 Start: 26841, Stop: 27227, Start Num: 2
Candidate Starts for Hirko_28:
(Start: 2 @26841 has 2 MA's), (6, 26898), (16, 27009), (20, 27060), (22, 27075),

Gene: Nandita_26 Start: 19577, Stop: 19981, Start Num: 1
Candidate Starts for Nandita_26:
(Start: 1 @19577 has 9 MA's), (5, 19628), (9, 19670), (12, 19721), (13, 19730),

Gene: Popper_24 Start: 19482, Stop: 19886, Start Num: 1
Candidate Starts for Popper_24:
(Start: 1 @19482 has 9 MA's), (9, 19575), (13, 19635), (16, 19659), (18, 19701), (24, 19821),

Gene: Raqqa_25 Start: 19651, Stop: 20100, Start Num: 1
Candidate Starts for Raqqa_25:
(Start: 1 @19651 has 9 MA's), (6, 19717), (7, 19720), (10, 19783), (16, 19828), (19, 19873),

Gene: Ryan_26 Start: 20167, Stop: 20571, Start Num: 1
Candidate Starts for Ryan_26:
(Start: 1 @20167 has 9 MA's), (5, 20218), (9, 20260), (12, 20311), (13, 20320),

Gene: Seahorse_29 Start: 20763, Stop: 21203, Start Num: 1
Candidate Starts for Seahorse_29:
(Start: 1 @20763 has 9 MA's), (6, 20829), (10, 20895), (11, 20904), (13, 20916), (16, 20940), (26, 21162),

Gene: Sicarius2_30 Start: 24899, Stop: 25237, Start Num: 3
Candidate Starts for Sicarius2_30:
(Start: 3 @24899 has 2 MA's), (4, 24926), (6, 24950), (12, 25028), (17, 25070), (21, 25118), (22, 25127), (23, 25172),

Gene: Tiff81_30 Start: 20491, Stop: 20931, Start Num: 1
Candidate Starts for Tiff81_30:
(Start: 1 @20491 has 9 MA's), (6, 20557), (7, 20560), (8, 20572), (16, 20668), (26, 20890),

Gene: Vibaki_28 Start: 26388, Stop: 26738, Start Num: 2
Candidate Starts for Vibaki_28:
(Start: 2 @26388 has 2 MA's), (6, 26445), (16, 26556), (20, 26607),

Gene: Zaheer_26 Start: 20256, Stop: 20660, Start Num: 1

Candidate Starts for Zaheer_26:
(Start: 1 @20256 has 9 MA's), (5, 20307), (9, 20349), (12, 20400), (13, 20409),

Gene: Zucker_25 Start: 19382, Stop: 19828, Start Num: 1
Candidate Starts for Zucker_25:
(Start: 1 @19382 has 9 MA's), (6, 19448), (10, 19514), (15, 19550), (16, 19559), (26, 19784),